

Blue Marble University

[This Program Administered by the Panama College of Cell Science]

Doctor of Philosophy (Ph.D.) in Stem Cell Biology

(3 Year Online Program)

Doctor of Philosophy (Ph.D.) Stem Cell Biology

This program presents graduate level core biology concepts and then moves on to specialized subjects relating to stem cell science. The purpose of the course is to teach not only the basic science of stem cell biology, but also the practical applications to patient treatment today, through the exploration of international therapies using adult stem cells. The program is excellent for those that may be interested in not only a research career, but also a career in clinical medicine, pharmacology, or health administration.

The course can be completed entirely online within a 3 year period.

We operate on a trimester schedule, which means that our academic year is divided into 3 segments of 4 months each. In each 4 month period, students take three courses. For some terms, or as determined by the University, students may be assigned courses in sequence, lasting about 1 month each. In that event, for any approximate one month period, a student will be studying one course.

TOTAL: 72 TRIMESTER CREDITS

(Equivalent to the USA Minimum Requirement for a Doctor of Philosophy (PhD) Degree)

Year 1	Year 2	Year 3
Term 1	Term 1	Term 1
Biochemistry (Course #610), 3 credits	Fundamentals of Stem Cell Biology (Course #630) 3 credits	Research Methodology and Writing (Course #680) 3 credits
Embryology (Course #612), 3 credits	Stem Cells, Embryonic (Course #632) 3 credits	Topics for Thesis (Course #682) 3 credits
Enzymology (Course #614), 3 credits	Stem Cells, Adult and Fetal (Course #634) 3 credits	Dissertation Preparation I (Course #684) 3 credits

Year 1	Year 2	Year 3
Term 2	Term 2	Term 2
Virology (Course #616), 3 credits	Stem Cell Laboratory Protocols (Course #636) 3 credits	Dissertation Preparation II (Course #686) 3 credits
Molecular Biology (Course #618), 3 credits	Human Regenerative Biology (Course #638) 3 credits	
Blood: (Course #621), 3 credits	History of Medicine (Course #640) 3 credits	
Term 3	Term 3	Term 3
Physiology and Human Anatomy (Course #622) 3 credits	Disease Treatment with Autologous Stem Cells (Course #642) 3 credits	Dissertation Presentation and completion of Online Portfolio (Course #700) 6 credits
Immunology (Course #624), 3 credits	Fetal and Embryonic Stem Cell Therapy (Course #644) 3 credits	
Hormonal Rejuvenation (Course #626), 3 credits	Growth Media, Cell Tagging, Cell Separation (Course #646) 3 credits	

A description of the courses can be found in the Department of Biology Course Handbook.

NOTE:

This program is administered by the Panama College of Cell Science, which functions as an autonomous college within the University. For further information on the program, how to apply, and contact information, please visit the [Panama College of Cell Science](#)